

Date: Thu, 27 May 93 22:29:27 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #651
To: Info-Hams

Info-Hams Digest Thu, 27 May 93 Volume 93 : Issue 651

Today's Topics:

Alinco 600 mobile rig (Questions)
Daily Solar Geophysical Data Broadcast for 27 May
GAP vs. R7 etc. (3 msgs)
GMRS; type acceptance question
HamCom
Heath HW-101
Heathkit Model W-5M Tube Amplifier
HTX-202 button index
Recommendations wanted for SAT QSO's
REPEATER CONTROLLER
roof mounted tri-band beam
Softball team fundraiser gets 8K FCC fine
STS-57 Launch Delay

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Thu, 27 May 1993 22:34:28 GMT
From: agate!dog.ee.lbl.gov!newshub.nosc.mil!avalon.nwc.navy.mil!peewee!
erik@ames.arpa
Subject: Alinco 600 mobile rig (Questions)
To: info-hams@ucsd.edu

I understand that the newer ones include the DSQ decode so remote
control is standard. I have heard that one should not configure a
dual-band using cross-band repeat to link to a repeater. It would
seem that this is the one really useful feature of a remote control,

cross-band unit. What gives?

To anyone who owns a 600 out there, I am considering the purchase and would appreciate any advice, comments, etc. Are there any mods to provide extended coverage? I have a dual band Larsen antenna already. Is there a duplexer built in to the 600? If not is there an Alinco accessory for this?

73 and thanks

--

Erik van Bronkhorst KC6UUT DoD#4342585443 AMA#[classified]

"Truth is false and logic lost, now the fourth dimension is crossed..."

Date: 28 May 93 03:37:56 GMT

From: news-mail-gateway@ucsd.edu

Subject: Daily Solar Geophysical Data Broadcast for 27 May

To: info-hams@ucsd.edu

!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 147, 05/27/93
10.7 FLUX=119.5 90-AVG=121 SSN=097 BKI=2443 3223 BAI=015
BGND-XRAY=B4.9 FLU1=2.6E+05 FLU10=1.3E+04 PKI=2453 3233 PAI=018
BOU-DEV=016,060,059,020,033,017,017,021 DEV-AVG=030 NT SWF=01:004
XRAY-MAX= M1.2 @ 1755UT XRAY-MIN= B3.5 @ 0632UT XRAY-AVG= C1.1
NEUTN-MAX= +000% @ 0000UT NEUTN-MIN= +000% @ 0000UT NEUTN-AVG= +0.0%
PCA-MAX= +0.0DB @ 0000UT PCA-MIN= +0.0DB @ 0000UT PCA-AVG= +0.0DB
BOUTF-MAX=55400NT @ 1201UT BOUTF-MIN=55363NT @ 1901UT BOUTF-AVG=55386NT
GOES7-MAX=P:+000NT@ 0000UT GOES7-MIN=N:+000NT@ 0000UT G7-AVG=+076,+000,+000
GOES6-MAX=P:+148NT@ 1821UT GOES6-MIN=N:-128NT@ 0612UT G6-AVG=+102,-025,-064
FLUXFCST=STD:120,125,125;SESC:120,125,125 BAI/PAI-FCST=015,015,010/025,020,010
KFCST=4434 4111 1112 2111 27DAY-AP=012,010 27DAY-KP=4322 3232 3423 2222
WARNINGS=*SWF
ALERTS=**MINFLR:M1.2/2B@1755UTC(7515);**SWEEP:II=1@0114-0118UTC
!!END-DATA!!

NOTE: The Effective Sunspot Number for 26 MAY 93 is not available.

The Full Kp Indices for 26 MAY 93 are: 1- 1- 1- 1- 1o 2- 1o 3-

Date: 28 May 93 00:32:46 GMT

From: usc!howland.reston.ans.net!darwin.sura.net!sgiblab!bridge2!alantec!irvin!
newman@network.UCSD.EDU

Subject: GAP vs. R7 etc.

To: info-hams@ucsd.edu

Since I'm about to move into a house here on a 1/5 acre lot

I've been pondering the 1/2 wave verticals now on the market as a quick and easy way to get on several bands (ie. till the tower goes up.)

A friend back in 1-land was very happy with his GAP vertical when he faced a similar situation. The spec's sound wild, (80 thru 2 meters) but really 40, 20 and 15 are my main interest.

Any hands on experience with it vs. more traditional verticals like the R5/R7 or the Butternut?

...and no need to start a session on the bad aspects of verticals or multiband antennas etc. I used to have a few acres and lots of big trees for all sorts of wire antenna but those days are gone and besides the weather is much nicer here!

Dave
KN6BX (ex-N1FVA)

Date: Fri, 28 May 1993 03:02:42 GMT
From: usc!howland.reston.ans.net!usenet.ins.cwru.edu!news.csuohio.edu!
sww@network.UCSD.EDU
Subject: GAP vs. R7 etc.
To: info-hams@ucsd.edu

Most of the GAPs in our area have blown down long ago. Guying is a must.

73,
Steve, N08M.OH

Date: Fri, 28 May 1993 03:40:59 GMT
From: usc!howland.reston.ans.net!agate!headwall.Stanford.EDU!Csli!
kawai@network.UCSD.EDU
Subject: GAP vs. R7 etc.
To: info-hams@ucsd.edu

Dear Dave (KN6BX)

Congratulations on your new home! I'm an apartment dweller myself, and am nudging my wife to move out into the countryside.

I don't have any experience with the GAP vertical you mention (I don't even know what it is). I have used a Butternut HF6VX, though, and I've talked

with various R5/R7 owners.

There are three considerations here: cost, space, and ease of use. If radials are no problem for you, consider the HF6VX, or the AP80. These are cheaper and allow operation with wider bandwidth on the lower bands. Unfortunately, I know first-hand that the HF6VX is tricky to tune properly, especially if you don't have enough radials. If you enjoy trouble-shooting multiband antennas and you don't mind laying radials, then by all means consider an HF6VX or similar antenna. It's really nice to have a multiband vertical with low-band capability. No need to switch antennas when you change bands -- even better if you have an automatic antenna tuner. When your tower comes, you can compare your beam with your vertical, or you can use your vertical to spot DX and then swing your beam over. I would definitely keep the vertical after you get your tower and beam.

The R5/R7 verticals are much easier to set up. More expensive, though. Since they don't use radials, they're prime candidates for top-of-the-rotor-mast installations once you get your tower. If I had the money, I'd buy an R7, plant it on the ground or the roof for the time being, and when the tower comes, put it on the very top.

73 DE N6UOK

----- Speech Research Program, SRI, Menlo Park, CA 94025-3493 USA
--- Goh Kawai --- work:(415)859-2231 fax:(415)859-5984 home:(415)323-7214
----- internet: kawai@speech.sri.com radio: n6uok and 711fqe

Date: Thu, 27 May 1993 22:40:40 GMT
From: agate!dog.ee.lbl.gov!newshub.nosc.mil!avalon.nwc.navy.mil!peewee!
erik@ames.arpa
Subject: GMRS; type acceptance question
To: info-hams@ucsd.edu

I understand WHY FCC requires type acceptance. I guess I just want to know

1. if any extended coverage 440 units are type accepted for GMRS operation (or why not)
2. what I must do to gain type acceptance for a unit in my possession that I believe will meet emissions regs. (or why I can't get there from here...)

Thanks

--

Erik van Bronkhorst KC6UUT DoD#4342585443 AMA#[classified]
"Truth is false and logic lost, now the fourth dimension is crossed..."

Date: 26 May 1993 20:43:37 GMT
From: pravda.sdsc.edu!news.cerf.net!usc!math.ohio-state.edu!magnus.acs.ohio-state.edu!csn!news.sinet.slb.com!news.San-Jose.ate.slb.com!jones@network.UCSD.EDU
Subject: HamCom
To: info-hams@ucsd.edu

Derek Wills (oo7@emx.cc.utexas.edu) wrote:
: marcbg@feenix.metronet.com (Marc Grant) advertises:
:
: >>HAM-COM 1993 BEGINS FRIDAY, JUNE 4 AND CONTINUES UNTIL SUNDAY, JUNE 7.
:
: Yessir, folks, we Texans have the loooongest days. It's
: something to do with things expanding in the summer heat.
: In other parts of the country, Sunday is June 6, but we
: are a little behind the times here, pardners. Heh heh...
:
:
: Derek "the days are getting longer" Wills (AA5BT, G3NMX)
:
: Department of Astronomy, University of Texas,
: Austin TX 78712. (512-471-1392)
: oo7@astro.as.utexas.edu

My guess would be that it probably has something to do with your "Blue Laws" that have all kinds of crazy things that you can't sell on Sundays (for instance, you can buy a turkey, but you can't buy a pan to cook it in, you can buy a gun but not a Bible on Sunday, and so on). I don't recall which catagory calendars fall into.

Glad I only spent two years in Dallas, and also glad I moved away a dozen years ago! ;-) ;-) ;-)

73,
Clark

--

Disclaimer: The opinions expressed above are mine and not those of Schlumberger because they are NOT covered by the patent agreement!

Phone: (602) 345-3638 Internet: jones@sj.ate.slb.com
Packet: N7RPQ@K7BUC.AZ.USA.NA RF: N7RPQ
Snail: Clark Jones, Schlumberger Technologies, 7855 S. River Pkwy #116, Tempe,
AZ 85284-1825

Date: 27 May 93 23:29:02 GMT

From: usc!howland.reston.ans.net!darwin.sura.net!sgiblab!cs.uoregon.edu!
news.uoregon.edu!netnews.nwnet.net!ns1.nodak.edu!plains!ndsuvml!
ud173191@network.UCSD.EDU
Subject: Heath HW-101
To: info-hams@ucsd.edu

I recently acquired a Heathkit HW-101, and I was wondering if anybody knows how to go about calibrating the dial on the tuning knob? Is there an easy way, or do I need a receiver for this? Next question: I have a pretty good idea about how to tune the finals, but can anybody tell me the exact procedure?

Thanx in advance!

---Greg Moore, N00DQ

Date: 27 May 1993 23:33:03 GMT
From: pravda.sdsc.edu!news.cerf.net!usc!howland.reston.ans.net!
usenet.ins.cwru.edu!huey.EEAP.CWRU.Edu!gallag@network.UCSD.EDU
Subject: Heathkit Model W-5M Tube Amplifier
To: info-hams@ucsd.edu

Hello everyone

I would like to find information and/or owners manuals for the Heathkit Model W-5M amplifier.

The following tube numbers are marked on the cabinet

V1 12AU7
V2 12AU7
V3 KT66 (6L6)
V4 KT66 (6L6)
V5 5R4GY

I would like to use this kit to design an electric guitar amplifier.

Any Heathkit info would be appreciated.

thank you Mike Gallagher

Date: 27 May 93 23:42:33 GMT

REALISTIC HTX-202 Summary of Button Functions

PTT + A.....Transmit DTMF A.....page 33
F + LOCK.....Keyboard lock.....page 19
CA.....Calling memory.....page 20

PTT + B.....Transmit DTMF B.....page 33
F + P-SC.....Priority scan.....page 22
PR.....Priority memories.....page 22

PTT + C.....Transmit DTMF C.....page 33
F + W-MR.....Memory write.....pages 20-23
MR.....Standard memories.....page 23

PTT + D.....	Transmit DTMF D. Follow with 1-5 to send a DTMF sequence.....	pages 33 & 34
F + M->VF0.....	Write memory to VF0.....	pages 20-23
VF.....	VF0 mode.....	page 16
CLR.....	Clear partially entered freq in VF0 mode...	page 16

PTT + 1.....	Transmit DTMF 1.....	page 33
PTT + T-SQL.....	Tone squelch.....	page 28
1.....	In Standard Memory mode, first digit of selecting memory 10, 11, or 12.....	page 23
	In VFO mode, enter a frequency.....	page 16
	In Priority Memory mode, select Priority Memory 1.....	page 22

PTT + 4.....	Transmit DTMF 4.....	page 33
F + D-SQL.....	DTMF-squelch.....	page 34
4.....	In Standard Memory mode, select Memory 4...	page 23
	In VFO mode, enter a frequency.....	page 16

PTT + 7.....Transmit DTMF 7.....page 33
F + SAVE.....Power save option.....page 31

7.....	In Standard Memory mode, select Memory 7...	page 23
	In VFO mode, enter a frequency.....	page 16
*/ \ /SC		
PTT + *.....	Transmit DTMF *.....	page 33
F + \ /SC.....	In VFO mode, scan down the selected range..	page 30
\ /SC.....	In VFO, Priority Memory or Standard Memory mode scan down.....	pages 17, 22 & 23
	In memory-set mode, next menu item.....	page 26
2/DTMF		
PTT + 2.....	Transmit DTMF 2.....	page 33
F + DTMF.....	Store DTMF memory sequence.....	page 33
2.....	In Standard Memory mode, select Memory 2...	page 23
	In VFO mode, enter a frequency.....	page 16
	In Priority Memory mode, select Priority Memory 2.....	page 22
5/BEEP		
PTT + 5.....	Transmit DTMF 5.....	page 33
F + BEEP.....	Key entry beep.....	page 19
5.....	In Standard Memory mode, select Memory 5...	page 23
	In VFO mode, enter a frequency.....	page 16
8/M-SET		
PTT + 8.....	Transmit DTMF 8.....	page 33
F + M-SET.....	In VFO mode, memory set.....	page 26
	In Standard, Priority, Calling Memory, change options for memory channel.....	page 21
8.....	In Standard Memory mode, select Memory 2...	page 23
	In VFO mode, enter a frequency.....	page 16
0/V-SC		
PTT + 0.....	Transmit DTMF 0.....	page 33
F + V-SC.....	Vacant scan.....	page 19
0.....	In Standard Memory mode, select 1st digit of memory 1.....	page 23
	In VFO mode, enter a frequency.....	page 16
3/ +/-		
PTT + 3.....	Transmit DTMF 3.....	page 33
F + +/-.....	Duplex offset.....	page 18
3.....	In Standard Memory mode, select Memory 3...	page 23
	In VFO mode, enter a frequency.....	page 16
	In Priority Memory mode, select Priority Memory 3.....	page 22
6/REV		

PTT + 6.....Transmit DTMF 6.....page 33
F + REV.....Reverse transmit & receive freqs.....page 31
6.....In Standard Memory mode, select Memory 6...page 23
 In VFO mode, enter a frequency.....page 16

9/M-CLR

PTT + 9.....Transmit DTMF 9.....page 33
F + M-CLR.....Memory clear.....page 31
9.....In Standard Memory mode, select Memory 9...page 23
 In VFO mode, enter a frequency.....page 16

#/ /\SC

PTT + #.....Transmit DTMF #.....page 33
F + /\SC.....In VFO mode, scan up the selected range....page 30
/\SC.....In VFO, Priority Memory or Standard Memory mode,
 scan up.....pages 17, 22 & 23
 In memory-set mode, previous menu item....page 26

F/M/PTT/L all located on the side of the unit with the PTT button

F.....Select the 2nd function of a key.....page 5
M.....Monitor a channel without squelch,
 In Standard, Priority or Calling memory,
 display memory's programmed options.....page 25
PTT.....Push-to-talk (transmit button).....page 18
L.....Turn on the light for 5 seconds.....page 15
F + L.....Turn on the light until you press L again..page 15

Date: 27 May 1993 23:12:40 GMT

From: sun-barr!news2me.EBay.Sun.COM!jethro.Corp.Sun.COM!caliban!

tjonz@decwrl.dec.com

Subject: Recommendations wanted for SAT QSO's

To: info-hams@ucsd.edu

gary@ke4zv.uucp (Gary Coffman) writes:

> are you talking about the rig where you have to hold the SAT button
> down with one hand while tuning with the other to get it to track?
> Are you talking about the radio that will fry your eggs during a short
> QSO because the thermal design is so poor? Are you talking about the
> radio that draws 25 amps to make 22 watts out of a rated 35? Are you
> talking about the Kenwood TS790A? Surely not.

and n4hy@growler.ccr-p.ida.org (Bob McGwier) responds:

> I could not agree with Gary more. I owned a TS-790A for over a year.

> It was a nice radio, but it was CRAP for satellite work....I have two
> friends with FT-736R and they are really nice radios.

This sounds like a good time for me to trot out some of my dumb OSCAR-chaser wannabe questions....

Okay, I've followed discussions on this topic in the past and gotten the message that the TS-790 isn't very well thought of as a satellite rig. What I have *not* figured out yet is the relative merits of the IC-970 versus the FT-736. It seems to me that the FT-736 is the multiband rig of choice for OSCAR work. Is this because of the ~\$1K difference in the price tag, or are there technical reasons that folks seem to prefer the FT-736 over the IC-970?

I'd like to have 2M, 70cm, and 23cm capabilities, so I'm looking at installing the 23cm band module in any multiband rig I might buy. It seems that the alternative would be to buy the two all mode mobile rigs that Yaesu makes (are they called the FT-290/490?) and some up- and/or down-converters to add 23cm. What features would I be sacrificing if I were to take this route? Is mucking around with converter boards a task that someone with precious little electronics construction experience (a.k.a. an "appliance operator" by today's standards of popular vernacular) can tackle without developing an ulcer?

Another factor that's not very well documented in the literature but is important to me is computer control. (I may be an appliance op when it comes to the hardware, but I look forward to hacking the software!) Is there much of a difference in the range of features that can be controlled via the computer interface on the FT-736 and the IC-970? And what about the FT-290/490; is a computer interface even available for these little beasties?

Finally a question about antennas. I understand that I'll probably want to install circularly polarized antennas for OSCAR work, but I'm also interested in terrestrial SSB as well. Since this will be my first experience above 28 MHz using a mode other than FM, and I'm curious how well circularly polarized antennas interoperate with horizontally polarized antennas. Will I get satisfactory performance using a circularly polarized antenna for terrestrial SSB, or will this require a separate antenna?

Thanks in advance to folks like Gary and Bob and anyone else who responds to this posting. You are the inadvertent Elmers who have contributed significantly to my understanding of these topics as a result of the items you post in this forum....

Todd, KB6JXT

Date: 28 May 1993 03:02:11 GMT

From: usc!howland.reston.ans.net!darwin.sura.net!sgiblab!cs.uoregon.edu!
news.uoregon.edu!netnews.nwnet.net!news.u.washington.edu!stein2.u.washington.edu!
dbillon@network.UCSD.EDU
Subject: REPEATER CONTROLLER
To: info-hams@ucsd.edu

I am looking for a repeater controller with telemetry, voice (ID and mailbox) and link capability. I am not very interested in the autopatch.

Any advice is welcome.

Damien, FC1PLI, dbillon@u.washington.edu

Date: 28 May 93 00:38:27 GMT
From: microsoft!wingnut!davidar@uunet.uu.net
Subject: roof mounted tri-band beam
To: info-hams@ucsd.edu

Do you know where I could find a good source of tips/techniques for installing antennas? Topics/issues like the ones you brought up? Wind/load, install location, height, support/bracket options, and most importantly, safety!! I want to install a Ringo Ranger on my roof which has a very steep pitch and a wood framed stove pipe chimney.

Gary (ke4zv), seems like most of the articles I end up filing in my HAM folder are from you, thanks again!

Dave Arnold (KD6IFY)
davidar@microsoft.com

Date: Fri, 28 May 1993 04:45:51 GMT
From: netcomsv!netcom.com!wa2ise@decwrl.dec.com
Subject: Softball team fundraiser gets 8K FCC fine
To: info-hams@ucsd.edu

Heard on the _Howard Stern radio show_ a news item about a softball team getting fined by the FCC. According to Howard and Robin (the radio talk show hosts) the news item said that the team held a fundraiser in the Norfolk, VA area. They had set up a radar gun to measure the velocity of pitched baseballs, and fundraiser attendees paid to see how fast they could throw. Turns out someone from the FCC happened to go to the fundraiser and, noticing the radar gun, asked about a license for it. No license. Oops. \$8000 fine.

Date: 28 May 93 00:13:18 GMT
From: news-mail-gateway@ucsd.edu
Subject: STS-57 Launch Delay
To: info-hams@ucsd.edu

SB SAREX @ AMSAT \$STS-57.001
STS-57 SAREX Mission Delay

I just recieved the following message from Lou McFadin, W5DID, regarding the flight of STS-57. STS-57 is the next in the series of 5 SAREX missions planned for this year. STS-57 will fly 2 meter voice and packet on this flight. The primary objective of this mission is to retrieve the European Eureka satellite.

Message from W5DID:

It has just been announced that STS-57 launch will be delayed until the week of 14-18 June. This delay is due to problems with the pump on the Shuttle main engine. Further details will be sent as available.

Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group

/EX

Date: Fri, 28 May 1993 03:34:19 GMT
From: usc!wupost!eclnews!wucs1!jdw@network.UCSD.EDU
To: info-hams@ucsd.edu

References <C7AE8L.JtM@ucdavis.edu>, <2867@tekgen.bv.tek.com>,
<1993May22.014707.8069@mks.com>
Subject : Re: 2 Meters and Airlines

In article <1993May22.014707.8069@mks.com> richw@mks.com (Rich Wales WA6SGA/VE3) writes:

>Since no one else has brought this up yet, I guess I will.

>

>When one is on a commercial flight, the US FAA rules say that any use of
>radio equipment can only be approved by the owner of the aircraft (i.e.,
>the airline -- NOT the pilot). For practical purposes, you can't do it,
>and it isn't worth wasting your time asking the flight crew for permis-
>sion, because they don't have the authority to give it to you.

>

>--

>Rich Wales <richw@mks.com> // Mortice Kern Systems Inc. (MKS)
>35 King St. N. // Waterloo, Ontario, Canada N2J 2W9 // +1 (519) 884-2251

I don't have the FAR Book handy here, but I've read the FAR regarding the use of radios/transmitters on board aircraft. If I recall correctly, it is up to the PIC (Pilot in Command) that decides if you can use your radio in flight.

A few months ago, I was listening to a local repeater and heard an aeronautical mobile... One of the hams on the ground asked if he obtained permission of the pilot to use his radio... The response was that he was the pilot! If a hand-held 2m is going to cause interference on an aircraft, you would think the cockpit would be good test.

j d wilson
N0TYZ
Washington University ARC, W0QEV

End of Info-Hams Digest V93 #651
